Samsung Cloud Displays

Seamless and powerful lineups to deploy Virtual Desktop Infrastructure more easily for advanced mobility, manageability, security and business efficiency

BROCHURE

SAMSUNG

Improved security, agility and efficiency

Streamline the work environment with new thin-client and zero-client displays

Today's organizations seek new ways to control costs, increase security and simplify IT infrastructure maintenance. Providing employees with an accessible environment in which they can access programs, data and settings can be an expensive and complex task.

With Samsung Cloud Displays, companies can:

- Increase employee mobility and efficiency through a VDI infrastructure with advanced connectivity.
- Improve productivity by uncluttering the workspace and incorporating an ergonomic workstation design.
- Optimize IT strategies to protect company data and systems from security threats.
- Streamline the IT environment with a VDI to reduce costs, keep systems up-to-date, improve management and meet regulatory compliance requirements.

Samsung announced the world's first integrated All-in-One Cloud Display with thin-client and zero-client technology directly embedded in the displays in 2004. Built to professional-grade standards for quality, ergonomics and durability, Samsung Cloud Displays provide a VDI that improves efficiency and productivity. Thin- and zero-client displays free up workspace by reducing cable clutter and eliminating the need for desktop PCs.

In addition to All-in-One Cloud Display,Samsung offers seamless and powerful lineups to deploy Virtual Desktop Infrastructure more easily:

Type	All-in-One	Box type	Stand type
	Eliminate the need for a separate PC	The easiest and most conven-ient way to deply VDI	Transform current Monitor to All-in-One Cloud Display
Thin-client	TC241W, TC191W, TC220, TS240W, TS220W, TS190W	TX-WN	TB-WH
Zero-client	NC241, NC191, NC220, NC220P		NB-NH

Industry trends

The current demand for more efficient, secure and cost-effective IT equipment is driven by the following industry trends:

- The expansion of computing ecosystems that increased consumer device usage within IT and proliferated the number of devices connected to Internet
- The need for modern workers to connect to information, application, services and other individuals to collaborate efficiently
- The wide acceptance of cloud computing technology as a hub for information, data and services
- The increase of internal and external security and privacy threats to IT infrastructures caused by the ex-panded use of consumer devices and ubiquitous con-nectivity
- The requirements of regulatory compliance and reinforcement to protect information, software and intellectual property

Businesses are turning to VDI technology to improve efficiency, protect data and infrastructures and reduce costs.[1]

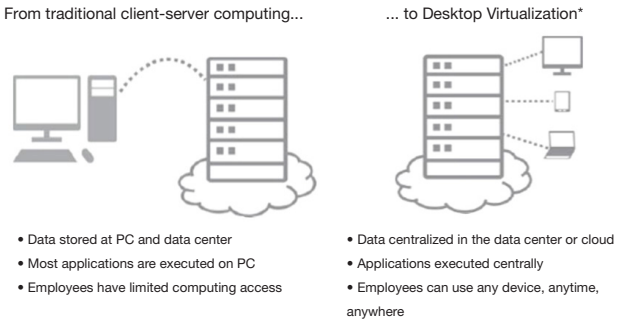
From traditional client-server computing...
... to Desktop Virtualization*
• Data stored at PC and data center
• Most applications are executed on PC
• Employees have limited computing access
• Data centralized in the data center or cloud
• Applications executed centrally
• Employees can use any device, anytime, anywhere

Figure 1. Comparison of traditional desktop computing and VDI computing

Engineered with the latest display technologies and high-quality compo-nents

Improve organizational flexibility with enhanced connectivity

Once VDI is deployed, additional benefit of greater connectivity to a wide range of employee's mobile devices is provided to support Bring Your Own Device (BYOD) initiatives. Ubiquitous connectivity and company policy help employees access their data and applications securely from anywhere; whether from their laptop at a customer site; on a shared PC at the branch office; or a non-company PC at home or on the road. This increases organizational agility, optimize employee mobility and improve a company's ability to respond to its customers.

"Being able to access my work from any Cloud display on campus makes all the difference because with the old PCs, you had to go to that specific classroom. Now I can go to any Cloud display and login and work."

- Nikki Baron,Student, Cleveland Community College, US

Migrate to a VDI for a more productive work-ing environment

Samsung Cloud Displays feature thin-client or zero-client technology embedded into the monitors for effective desktop virtualization and improved productivity. Clutter can be reduced by eliminating unnecessary bulky PCs and wiring.

Samsung Cloud Displays are available in a variety of screen sizes and form factors for maximum flexibility. The displays are packed with ergonomic features like height-adjustable stands (HAS), and tilt and swivel capabilities to accommodate virtually any user's needs. Samsung Cloud Displays generate less heat, noise and dust than traditional PCs. The displays feature multiple ports for connecting with most peripherals, and have optional integrated speakers for an even more streamlined workspace.

Samsung Cloud Displays are designed for easy migration to a VDI. Samsung working alliances with VMware®, Cisco®, EMC® and Microsoft® help to ensure connectivity between the Samsung displays and other manufacturers' software and systems.

"Deploying a Samsung Cloud display was as easy as installing a monitor. Instead of spending 90 minutes for a PC deployment, we were out of there in just 5 minutes."

- Brooks Moore, Manager of Technology Services, Aledo Schools,US

Safeguard company data and infrastructures through streamlined IT strategies

Samsung Cloud Displays help to address the demands of in-creasingly complex IT environments through data centralization and backup. A security-rich VDI infrastructure also supports compliance with many data protection regulations. Samsung Zero-client cloud displays do not have disk drives or locally stored data, so confidential information has greater protection from intruders and unauthorized users.

"When a student logs on to their session with a Samsung Cloud, they have a clean, virus-free computing session every time – it is amazing!"

- Andrew Zuniga, Technology Instructor, Del Valle Schools, US

Increase efficiency and reduce IT costs with advanced VDI features

Companies need a cost-efficient means of managing today's complex IT environments. A VDI based on Samsung Cloud Display technology provides a streamlined approach to IT management that helps organizations:

- Diagnose and fix issues remotely to optimize employee productivity.
- Support end-client tasks from a central location, such as an IT desk.
- Patch and upgrade software for computing stations simultaneously (on the server).
- Allocate IT staff to more critical priorities.
- Reduce support calls to IT help desks
- Decrease IT visits to remote locations, such as branch offices, factories and retail stores.
- Install new computing stations in minutes
- Provide quicker resolution of service issues in mission-critical areas

In addition to improving efficiency, companies also need cost-saving ways to reduce power usage. Samsung Cloud Displays cut electricity usage by 60 percent or more, compared to a traditional PC and monitor setup.

Seamless lineups supporting newest VDI tech-nologies for powerful and secure virtual computing solutions

Deploying VDI in organization is not a simple replacement project but a very complicated project bringing various considerations from heterogeneous IT environment. Each company has different IT infrastructure and hardware replacement cycle. Even in one company, each department has their own environment and requirement.

To minimize complexity of VDI solution choice, Samsung offers seamless lineups supporting newest VDI technologies for powerful and secure virtual computing solutions

and systems.

All-in-One Cloud Display : Eliminate the need for a sepa-rate PC

Samsung offers All-in-One Cloud Display for both Thin-client and Zero-client technology. Customer can choose the right product according to their VDI strategy and requirement.

TC191/TC241 are the perfect Thin-client solution for saving space and avoiding clutter in the workplace. With embedded AMD chipset, SSD disk and Memory, it is optimized PC which knowledge worker can do their job on local and VDI(network) solution with.

NC191/NC241 equipped embedded Tera2 PCoIP® Zero Cli-ents chipset continue to deliver the most secure, easiest to manage and highest performance virtual desktop experience on the market. This PCoIP zero client Cloud Display connects easily and effectively with your business's data center.

NC191/NC241 does not require its own operating system, local CPU or memory storage, All software and hardware components are installed on the central server and automatically extended to each user's Zero-client cloud display. This simple mechanism provides powerful security, minimized maintenance costs and excellent space saving.

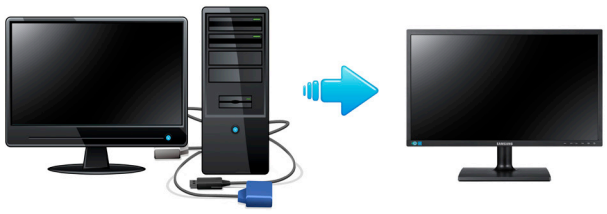

Figure 2. Save your work space with All-in-One Cloud Display while enhance its security and maintenance.

Box type Cloud Series : The easiest and most conve-nient way to deply VDI

TX-WN is Thin-client box type cloud series with embedded AMD 1.0GHz CPU, SSD disk and Memory. By simply substi-tuting current desktop with TX-WN and connecting current monitor to it, company can easily migrate its client computing environment to virtual desktop infrastructure. Despite its small form factor and size, it works in excellent performance, perfect security and streamlined manageability support by MagicRMS 2.0.

Figure 3. Migrate and optimize your desktop infrastructure to VDI in a easiest way.

Stand type Cloud Series : Transform current Monitor to All-in-One Cloud Display

Samsung stand type cloud series is the world's first stand-type cloud display products without display. This products with entirely new concept enable company to transform their existing VESA compatible monitors to All-in-One like feature. The sleek and contemporary design of this base station offers increased desktop space and helps to keep work area tidy. It can hold a monitor weighing up to 6.5kg, with a maximum size of 27 inch with VESA mount 75X75 & 100X100.

NB-NH is Zero-client device with embedded Tera2 PCoIP® Zero Clients chipset continue to deliver the most secure, easiest to manage and highest performance virtual desktop experience on the market. This PCoIP zero client Cloud Display connects easily and effectively with your business's data center.

Figure 4. Transform your current monitor to All-in-One Cloud Display with stand type cloud series

Manage more than 1,000 displays with the Samsung MagicRMS 2.0 solution

The Samsung MagicRMS 2.0 remote management software solution is built into the thin client technology of the Samsung Cloud TX/TB/TS/TC Series of displays . The software assists information technology (IT) professionals with the maintenance, monitoring and overall management of the displays. IT personnel can manage more than 1,000 Samsung Cloud TX/TB/TS/TC Series displays from a remote location with the MagicRMS 2.0 software.

MagicRMS 2.0 software consists of three components: agent, server and console.

- **Agent software.** The agent software component is in-stalled on Samsung Cloud displays and devices and sends and receives information to the server.
- **Server software.** The server software component is in-stalled on the server computer and connects to the displays.
- **Console software.** The console software monitors, edits, reports, and gathers information on the Samsung Cloud displays.

All three components of the MagicRMS 2.0 help with the efficient management of thin client networks.

Features and benefits

Features	Benefits
All-in-one form factor	Decreases desktop clutter
More secure, centralized data	Helps companies comply with security regulations Assists businesses in retaining intellectual property
Improved connectivity	Provides flexible access to mobile employees
Reduced maintenance	Decreases the need for IT support Increases uptime
Eco-friendly design	Lowers energy costs

Optimize organizational agility and efficiency with advanced cloud displays

Today's companies need better management of complex IT environments, improved employee mobility and increased security. Samsung Cloud Displays provide an efficient VDI that enhances employee productivity with a streamlined, ergonomic work environment. Centralized IT management helps to keep systems and data more secure while reducing IT support and costs.

Samsung Cloud Displays provide a high-quality IT environment that is current with today's devices, trends, connectivity and infrastructures.

All -in-One
Thin Client

			TC191W	TC241W
Client	Processor/Graphics/Audio/Networking		AMD Ontario™ 1.0 GHz Dual/AMD Radeon™ HD6290/ Realtek ALC262/Marvell 88E8055 Gigabit LAN	
	Memory (socket)/Storage/ Ethernet/Fan or fanless		DDR3 2 GB (WES7)/SSD 8 GB/Gigabit Ethernet/Fanless	
Software	Supported software		(OS) Microsoft® Windows® Embedded Standard 7 (WES 7, 32 bit)	
	Remote management		MagicRMS 2.0	
Panel	Size		482.6 mm (19 in.)	599.44 mm (23.6 in.)
	Viewable size		482.6 mm (19 in.)	599.44 mm (23.6 in.)
	Panel type		a-Si TFT active matrix	
	Aspect ratio		5:4	16:9
	Pixel pitch (H x V)		0.29 mm x 0.29 mm (0.01 in. x 0.01 in.)	0.27 x 0.27 mm (0.01 in. x 0.01 in.)
	Brightness (typ)		250 cd per sq. m	300 cd per sq. m
	Contrast ratio (typ)		1,000:1	
	Viewing angle (H x V)		170/160 deg (CR ≥ 10)	170/160 deg (CR ≥ 10)/178/ 170 deg (CR ≥ 5)
	Response time		5 ms	5 ms (white to white)
Frequency	Frequency	Horizontal	31 - 80 kHz	
		Vertical	56 - 75 Hz	
	Maximum resolution (H x V) (dual screen)		1,280 x 1,024 (1,920 x 1,200)	1,920 x 1,080 (1,920 x 1,200)
	Bandwidth		135 MHz	148.5 MHz
	Colors supported		16.7 million	
Signal	Sync type		(1) Separate H/V; (2) Sync on green	
	Input and output		D-sub in, DVI-I out, serial port; USB (2.0 x 4 ea) LAN (RJ45, Giga); Headphone-out port, audio in, MIC in	
Power	Power-on	Maximum	43 W	49 W
		Typical	27 W	32 W
	Stand-by		Less than 1.3 W	
Cabinet color	Front and back		Black	
Accessory (supplied)	Included in package		(1) User manual; (2) Power cord; (3) Quick Setup Guide; (4) Warranty card	
Accessory (optional)	Speaker		1 W x 2 (stereo)	
	Wall mount		VESA 100 x 100	
Dimension	Set, with stand (W x H x D)		407.0 mm x 352.9 mm x 210.0 mm (16.02 in. x 13.89 in. x 8.27 in.)	554.6 mm x 380.3 mm x 224.0 mm (21.83 in. x 14.97 in. x 8.82 in.)
	Set, without stand (W x H x D)		407.0 mm x 336.0 mm x 60.6 mm (12.09 in. x 13.23 in. x 2.39 in.)	554.6 mm x 330.5 mm x 61.2 mm (21.83 in. x 14.97 in. x 2.41 in.)
	Packaged (W x H x D)		514.0 mm x 407.0 mm x 195.0 mm (20.24 in. x 16.02 in. x 7.68 in.)	626.0 mm x 400.0 mm x 195.0 mm (24.65 in. x 15.75 in. x 7.68 in.)
Weight	Net/Gross		5.0 kg (11.02 lb)/6.1 kg (13.45 lb)	6.1 kg (13.45 lb)/7.6 kg (16.76 lb)
Stand	Type	Swivel	-45° - 45°	
		Pivot	0° - 90°	
		Tilt	-2° - 25°	
		Height adjustable	100 mm (3.94 in.)	130 mm (5.12 in.)

All -in-One
Thin Client

			TC220	TS190W
Client	Processor		AMD Ontario 1.0GHz Dual	AMD Ontario 1.0GHz Dual
	Graphic RAM		AMD Radeon HD6290	AMD Radeon HD6290
	Memory (Socket)		DDR3 1GB(Citrix Zero)/2GB(WES7) (1EA)	DDR3 2GB (2EA)
	Flash		SSD 8GB	SSD 8GB
	Ethernet		Gigabit Ethernet	Gigabit Ethernet
	Fan/Fanless		Fanless	Fan
Software	Supported SW1		[OS] Windows Embedded Standard 7 (WES 7 32bit) [Client SW] Microsoft RDP(7.1) / Citrix Online Plug-in (12.1) / VMWare (Vew 4.6) [Others] Enhanced Write Filter / Internet Explorer 8.0 / Media Player 12	[OS] Windows Embedded Standard 7 (WES 7 32bit) [Client SW] Microsoft RDP(7.1) / Citrix Online Plug-in (12.1) / VMWare (Vew 4.6) [Others] Enhanced Write Filter / Internet Explorer 8.0 / Media Player 12
	Certification		Vmware 4.5, Citrix HDX Ready	Vmware 4.5, Citrix HDX Ready
	Remote Management		MagicRMS Pro	MagicRMS Pro
Panel	Size		22"	19"
Frequency	Maximum resolution (Dual Screen)		1680 x 1050 (1920 x 1200)	1440x900 (1920 x 1200)
Signal	Input / Output		RGB-IN (15 pin D-SUB / PC-monitor use) , LAN (RJ45, Giga) , USB (2.0 x 4EA) , Headphone OUT, Audio IN / MIC IN, VGA Out (15pin D-SUB / for Dual), RS-232C (9pin D-SUB)	RGB-IN (15 pin D-SUB / PC-monitor use), DVI IN LAN (RJ45, Giga), USB(2.0 X 6EA), Headphone OUT, Audio OUT / MIC IN, VGA Out (15pin D-SUB / for Dual) DVI-D OUT(Single) (connection to integrated display)
Power	Power-on	Max / Typical	45W / 30W	45W / 25W
	Stand-by		1.8W	1.8W
Speaker			1.0W x2 (Optional)	None
Wall mount			VESA 100 x 100	VESA 100mm
Dimension	Set, with stand (W x H x D)		508.0 X 396.3 X 216.6	443.0 X 416.8 X 227.0
	Set, without stand (W x H x D)		508.0 X 344.3 X 49.0	443.0 X 301.9 X 49.5
Weight	Net / Gross		5.5kg /7.4kg	4.42kg / 6.22kg
Stand	Type	Swivel / Pivot Tilt / Height Adjustable	'-45deg ~ 45deg / 0deg ~ 90deg / '-2deg ~ 25deg / 130mm	'-45deg ~ 45deg / 0deg ~ 90deg '-2deg ~ 25deg / 150mm
TCO / Energy Star			TCO 05 / Energy Star 5.0	TCO 05 / Energy Star 5.0

All -in-One
Thin Client

			TS220W	TS240W
Client	Processor		AMD Ontario 1.0GHz Dual	AMD Ontario 1.0GHz Dual
	Graphic RAM		AMD Radeon HD6290	AMD Radeon HD6290
	Memory (Socket)		DDR3 2GB (2EA)	DDR3 2GB (2EA)
	Flash		SSD 8GB	SSD 8GB
	Ethernet		Gigabit Ethernet	Gigabit Ethernet
	Fan/Fanless		Fan	Fan
Software	Supported SW1		[OS] Windows Embedded Standard 7 (WES 7 32bit) [Client SW] - Microsoft RDP(7.1) - Citrix Online Plug-in (12.1) - VMWare (Vew 4.6) [Others] - Enhanced Write Filter (EWF) - Internet Explorer 8.0 - Media Player 12	[OS] Windows Embedded Standard 7 (WES 7 32bit) [Client SW] - Microsoft RDP(7.1) - Citrix Online Plug-in (12.1) - VMWare (Vew 4.6) [Others] - Enhanced Write Filter (EWF) - Internet Explorer 8.0 - Media Player 12
	Certification		Vmware 4.5, Citrix HDX Ready	Vmware 4.5, Citrix HDX Ready
	Remote Management		MagicRMS Pro	MagicRMS Pro
Panel	Size		21.5"	24"
Frequency	Maximum resolution (Dual Screen)		1920x1080 (1920 x 1200)	1920x1200 (1920 x 1200)
Signal	Input / Output		RGB-IN (15 pin D-SUB / PC-monitor use) , DVI IN LAN (RJ45, Giga), USB(2.0 X 6EA), Headphone OUT Audio OUT / MIC IN, VGA Out (15pin D-SUB / for Dual), DVI-D OUT(Single) (connection to integrated display)	RGB-IN (15 pin D-SUB / PC-monitor use) , DVI IN LAN (RJ45, Giga), USB(2.0 X 6EA), Headphone OUT Audio OUT / MIC IN, VGA Out (15pin D-SUB / for Dual), DVI-D OUT(Single) (connection to integrated display)
Power	Power-on	Max / Typical	50W / 30W	55W / 35W
	Stand-by		1.8W	1.8W
Speaker			None	None
Wall mount			VESA 100mm	VESA 100mm
Dimension	Set, with stand (W x H x D)		513.0 X 424.1 X 227.0	560.0 X 444.3 X 227.0
	Set, without stand (W x H x D)		513.0 X 317.0 X 50.0	560.0 X 374.0 X 50.0
Weight	Net / Gross		4.87kg / 6.74kg	5.28kg / 7.52kg
Stand	Type	Swivel / Pivot Tilt / Height Adjustable	'-45deg ~ 45deg / 0deg ~ 90deg / '-2deg ~ 25deg / 150mm	'-45deg ~ 45deg / 0deg ~ 90deg '-2deg ~ 25deg / 150mm
TCO / Energy Star				

All -in-One
Zero Client

			NC191	NC241
Client	Processor		Teradici Tera2321	Teradici Tera2321
	Graphic RAM		DDR3 512MB	DDR3 512MB
	Flash		256M bit (32M Byte)	256M bit (32M Byte)
	VMware / Citrix Certification		VMware-Ready	VMware-Ready
	Ethernet		Gigabit Ethernet	Gigabit Ethernet
	Fan/Fanless		Fanless	Fanless
Panel	Size		19" (5 : 4)	23.6" (16 : 9)
Frequency	Maximum resolution (H x V)		1280 x 1024 (1920 x 1200)	1920 x 1080 (1920 x 1200)
Signal	Input / Output		RGB-IN (15 pin D-SUB / PC-monitor use), LAN (RJ45, Giga), USB (2.0 x 4EA), Headphone OUT, Audio OUT, MIC IN, RS-232C (9pin D-SUB), DVI-I Out	RGB-IN (15 pin D-SUB / PC-monitor use), LAN (RJ45, Giga), USB (2.0 x 4EA), Headphone OUT, MIC IN, RS-232C (9pin D-SUB), DVI-I Out
Power	Power-on	Maximum	40W	46W
		Typical	17W	23W
	Stand-by		Less than 1.0W	Less than 1.0W
Accessory (Optional) Power	Speaker		1W x 2	1W x2
	Wall mount bracket		VESA 100 x 100	VESA 100 x 100
Dimension	Set, with stand (W x H x D)		407.0 x 352.9 x 210.0	554.6 x 380.3 x 224.0
	Set, without stand (W x H x D)		407.0 x 336.0 x 60.6	554.6 x 330.5 x 61.2
Weight	Net / Gross		5.0kg / 6.1kg	6.1kg / 7.6kg
Stand	Type	Swivel	'-45deg ~ 45deg	'-45deg ~ 45deg
		Pivot	0deg ~ 90deg	0deg ~ 90deg
		Tilt	'-2deg ~ 25deg	'-2deg ~ 25deg
		Height Adjustable	100mm	130mm
Energy Star			Energy Star 5.0	Energy Star 5.0

All -in-One
Zero Client

			NS190	NC220 / NC220P
Client	Processor		Terra1100	Teradici Tera1100
	Graphic RAM		XDR 128MB	XDR 128MB
	Flash		N/A	N/A
	VMware / Citrix Certification		VMware-Ready(4.6)	VMware-Ready(4.6)
	Ethernet		Gigabit Ethernet	Gigabit Switching Hub (2 LAN port)
	Fan/Fanless		Fan	Fanless
Panel	Size		19"	22"
Frequency	Maximum resolution (H x V)		1440x900 (1920 x 1200)	1680 x 1050 (1920 x 1200)
Signal	Input / Output		RGB-IN (15 pin D-SUB / PC-monitor use), LAN (RJ45, Giga), USB (2.0 x 4EA), Headphone OUT, Audio OUT, MIC IN, RS-232C (9pin D-SUB), VGA Out (15pin D-SUB / for Dual), DVI-I Out DVI OUT (connection to integrated display)	RGB-IN (15 pin D-SUB / PC-monitor use), LAN (RJ45, Giga), USB (2.0 x 4EA), Headphone OUT, MIC IN, RS-232C (9pin D-SUB), DVI-I Out
Power	Power-on	Maximum	50W	50W
		Typical	35W	38W
	Stand-by		1.5W	0.8W (NC220P : 4.0W)
Accessory (Optional) Power	Speaker		None	1.0W x 2 (Optional)
	Wall mount bracket		VESA 100mm	VESA 100 x 100
Dimension	Set, with stand (W x H x D)		443.0 X 416.8 X 227.0	508.0 X 396.3 X 216.6
	Set, without stand (W x H x D)		443.0 X 301.9 X 49.5	508.0 X 344.3 X 49.0
Weight	Net / Gross		4.42kg / 6.22kg	5.5kg / 7.4kg (NC220P: 7Kg)
Stand	Type	Swivel	-45deg ~ 45deg	-45deg ~ 45deg
		Pivot	0deg ~ 90deg	0deg ~ 90deg
		Tilt	-2deg ~ 25deg	-2deg ~ 25deg
		Height Adjustable	150mm	130mm
Energy Star			X	O

All -in-One
Zero Client

			NS220	NS240
Client	Processor		Terra1100	Terra1100
	Graphic RAM		XDR 128MB	XDR 128MB
	Flash		N/A	N/A
	VMware / Citrix Certification		VMware-Ready(4.6)	VMware-Ready(4.6)
	Ethernet		Gigabit Ethernet	Gigabit Ethernet
	Fan/Fanless		Fan	Fan
Panel	Size		21.5"	24"
Frequency	Maximum resolution (H x V)		1920x1080 (1920 x 1200)	1920x1200 (1920 x 1200)
Signal	Input / Output		RGB-IN (15 pin D-SUB / PC-monitor use), DVI IN LAN (RJ45, Giga), USB (2.0 x 4EA), Headphone OUT, Audio OUT, MIC IN, RS-232C (9pin D-SUB), VGA Out (15pin D-SUB / for Dual), DVI-I Out DVI OUT (connection to integrated display)	RGB-IN (15 pin D-SUB / PC-monitor use), Audio OUT LAN (RJ45, Giga), USB (2.0 x 4EA), Headphone OUT, MIC IN, RS-232C (9pin D-SUB), DVI-I Out VGA Out (15pin D-SUB / for Dual), DVI IN
Power	Power-on	Maximum	55W	60W
		Typical	40W	45W
	Stand-by		1.5W	1.5W
Accessory (Optional) Power	Speaker		None	None
	Wall mount bracket		VESA 100mm	VESA 100mm
Dimension	Set, with stand (W x H x D)		513.0 X 424.1 X 227.0	560.0 X 444.3 X 227.0
	Set, without stand (W x H x D)		513.0 X 317.0 X 50.0	560.0 X 374.0 X 50.0
Weight	Net / Gross		4.87kg / 6.74kg	5.28kg / 7.52kg
Stand	Type	Swivel	-45deg ~ 45deg	-45deg ~ 45deg
		Pivot	0deg ~ 90deg	0deg ~ 90deg
		Tilt	-2deg ~ 25deg	-2deg ~ 25deg
		Height Adjustable	150mm	150mm
Energy Star			X	X

Stand

			NB-NH	TB-WH
Client	Processor		Teradici Tera2321	AMD Ontario 1.6GHz Dual
	Graphic RAM		DDR3 512 MB	AMD Radeon HD6310
	Audio		Realtek ALC886	
	VMware		VMware-ready	
	Ethernet		Gigabit Ethernet	Gigabit Ethernet
	Fan or fanless		Fanless	Fan
Frequency	Maximum resolution (H x V) (dual screen)		1,920 x 1,200	
Signal	Input and output		LAN (RJ45 Gigabit) USB (2.0 x 4 ea); Headphone-out port, audio out, MIC in; RS-232C (9-pin D-sub); VGA out (15-pin D-sub/for dual); DVI out (connection to integrated display)	LAN (RJ45, Giga) USB(2.0 X 6EA); Headphone OUT audio out, MIC IN; VGA Out (15pin D-SUB / for Dual); DVI-D OUT(Single) (connection to integrated display)
Power	Power-on	Maximum	19.4 W	40W
		Typical	7.3 W	25W
	Stand-by		Less than 1.0 W	1.8W
Accessories (supplied)	Included in package		(1) User manual; (2) Power adapter; (3) Quick Setup Guide; (4) Warranty card; (5) Power cord	
Optional Feature	Speaker		1 W x 2	1Wx2 (Stereo)
	Wall mount bracket		VESA 75 mm x 75 mm (2.95 in. x 2.95 in.) / 100 mm x 100 mm (3.93 in. x 3.93 in.)	VESA 75 X 75 / 100 X 100
Dimension	Packaged (W x H x D)		455 mm x 380 mm x 140 mm (17.91 in. x 14.96 in. x 5.51 in.)	445 X 380 X 140
	Stand (W x H x D)		244 mm x 340 mm x 227 mm (9.60 in. x 13.38 in. x 8.93 in.)	224 X 40 X 227
Weight	Net/gross		2.3 kg (5.0 lb) / 6.1 kg (13.4 lb)	2.3kg / 3.5kg
Stand	Type	Pivot	0° - 90°	0deg ~ 90deg
		Tilt	-2° - 25°	-2deg ~ 25deg
		Height adjustable	120 mm (3.94 in.)	120mm

Box

	TX-WN
Processor	AMD Ontario 1.0 GHz Dual
Graphics	AMD Radeon™ HD6290
Audio	Realtek™ ALC262
Networking	Marvell® 88E8055 Gigabit LAN
Memory (Socket)	DDR3 2 GB
Storage	SSD 8 GB
Ethernet	Gigabit Ethernet
Wi-Fi	802.11 a/b/g/n
Fan/fanless	Fanless
Supported software	OS: Windows Embedded Standard 7 (WES 7 32-bit)
Remote management	MagicRMS 2.0
Maximum resolution supported (H x V) (Dual screen)	1,920 x 1,200
Signal input/output	LAN, RJ45 Gigabit; USB, 3.0 X 2EA / 2.0 X 4EA; Headphone-out port; Audio-out; MIC in; RS-232C serial; DVI-I OUT; DVI-D OUT
Power	Power-on, 36 W maximum, 12 W typical; Stand-by, less than 2 W
Cabinet color, front and back	Black
Accessories included in package	User Manual, Power Cord, Quick Setup Guide, Warranty Card, Cradle, Power Adapter
Speaker	1W x 2 (Stereo)
Wall mount	VESA 100 mm (3.9 in.) x 100 mm (3.9 in.) (accessory/option)
Dimensions, set, with stand (W x H x D)	Vertical type: 91.8 mm x 217.8 mm x 166.3 mm (3.6 in. x 8.6 in. x 6.5 in.) Horizontal type: 210 mm x 54.8 mm x 122 mm (8.3 in. x 2.2 in. x 4.8 in.)
Dimensions, set, without stand (W x H x D)	210.0 mm x 47.5 mm x 122 mm (8.3 in. x 1.8 in. x 4.8 in.)
Dimensions, packaged (W x H x D)	270 mm x 258 mm x 120 mm (10.6 in. x 10.2 in. x 4.7 in.)
Cradle (W x H x D)	91.8 mm x 166.3 mm x 13 mm (3.6 in. x 6.5 in. x .5 in.)
Weight	Net 0.8 kg (1.8 lb); Gross 1.8 kg (4 lb)

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For more information

For more information about the Samsung Cloud Displays, visit www.samsunglfd.com

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1. IDC report

2. Samsung Cloud Display Benefits Estimator

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